

***ABSTRACT***

A process is provided to produce a dilute ethylene stream and a dilute propylene stream to be used as feedstocks for producing olefin-based derivatives. Specifically, the dilute ethylene stream is used as a feedstock to produce ethylbenzene, and the dilute propylene stream is used as a  
5 feedstock to produce cumene, acrylic acid, propylene oxide and other propylene based derivatives.

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